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Appl. No. : 09/855,340
Applicant : Hosted et al.
Filed : May 15, 2001
TC/AU : 1636
Examiner : Walter Schlapkohl
Docket No. : IN01164K US
Confirm. No.: 9296

Declaration by Dr. Thomas Hosted, Jr. and Dr. Ann C. Horan
Under 37 C.F.R. § 1.131

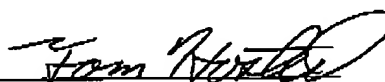
We, Dr. Thomas Hosted, Jr. and Dr. Ann C. Horan, co-
inventors of the above-referenced patent application,
declare as follows:

1. The *Xis* gene polynucleotide was isolated and the nucleotide sequence of the gene was identified to be as set forth in SEQ ID NO: 2 before the January 12, 2000 priority date of U.S. patent application publication no. 2004/0101832 and U.S. patent no. 6,861,513. Furthermore, all work set forth herein and in the exhibits hereto was performed at the Schering-Plough Research Institute which is located in Kenilworth, New Jersey, USA.
2. Enclosed exhibit A is a true copy of a page from co-inventor Hosted's laboratory notebook showing the sequence data referred to in paragraph 1 (dates redacted). The nucleotide and amino acid sequence labeled "Xis like" is the *Xis* sequence.
3. The *M. carbonacea* attP/attB region was isolated and the nucleotide sequence of the region was identified to be as set forth in SEQ ID NO: 6 before the January 12, 2000 priority date of U.S. patent application publication no. 2004/0101832 and U.S. patent no. 6,861,513.
4. Enclosed exhibit B is a true copy of a page from co-inventor Hosted's laboratory notebook showing the

sequence data referred to in paragraph 3 (dates redacted). The notebook page of exhibit B includes a comparison between two nucleotide sequences. The bottom sequence, from nucleotides 188 to 434, is the attP/attB region of SEQ ID NO: 6.

5. All the above statements were made with the knowledge that willful false statements and the like are punishable by fine and/or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that any such willful false statement may jeopardize the validity of this application or any patent resulting therefrom.

Date: 7/11/2006


Thomas J. Hosted, Jr.

Date: 6/22/2006


Ann C. Horan

Integrase region

XIS
LHM

सुभाषचन्द्र

ATTN: [unclear]

Investigative
report

Integrans region A Work
(3550 bp)

Redox analysis on
potential at P regions

30

Edge-custan (MWG) vs Edge#4 custan (Seqright)*

| | | |
|-----|---|-----|
| 1 | CCCTCGTACTCTCGATCGCGGTNCGGATCTGCTGTACGGGCACCTGCCTGAGGAGGT CGA | 60 |
| 81 | CGAGGGGATCCTCPCCGCGATCGAGGAGGCGATGGCCGCCCTCCGGGCTGAGGACCTGGA | 120 |
| 121 | GGCGGA ACTCGACGAGGAGCTGACGGACGTGTTGGCCGACCGAGCATGATCAACTCTAGG | 180 |
| 181 | GGAGGGGTAGGGGAATCCACTCCGGAGACGCCGGAGCAATCCGGAGCATGACGGAGCAA | 240 |
| 241 | CGAGCAGGT CAGGTGGCGTGTGACCCCTGACCAAGGCCCGGTACGGGTTCAATTCCC | 300 |
| 301 | ATCAGTCAACCGTACACGAAGGCCCGCTCACTCGGAGGGGCGCTTCGGCGTTCCTGAGG | 360 |
| 361 | GTTCCCGGT CAGGCGGTGGCGTCCGCGTGGGGGAATCGGCCCGCTCGGCGGAGTGGCC | 420 |
| 421 | TCGGCGTCCGGGAAGCGGTGGCGTCCGGGTGATACGGGAAGGCCGTGCCCTTGACGTAC | 480 |
| 481 | TCGTCCCGGTGATGTTCCAGTGGGTCCAGCCGTTGCCGTTGGGGAAGCTTACGTTGGGTG | 540 |
| 541 | CCCTTGACGGT GATCGGGTCCCGAGCCGGGTGTTGTGGAACAGCCAGGCCCGC-GTCT | 600 |
| 601 | TCATCGAGACGTTGACGCGAGCGGTGGGAGCGTTGACGCTGCCCTGCTGCCCTCGGACC | 660 |
| 661 | -AGGGGGCGCGGTGGATG-AACTCGCGCGGCCAGGTGAGGCGCTGCCGCTAGTCGATCTT | 720 |
| 721 | CAGGGGGCGGCGGTGGATG-AACT | 780 |
| 840 | CGTGGGTACCGTCTCGGGAAGCGGTCTCGAAGGTGTCAAAGACGCTCTTGCGTAGT | 840 |
| 841 | TTCTGCGATGAGCAGCATGTTCCGCTGGAGCAAGCGGTGCTGTTCTTGGCGAGGCTGAC | 900 |
| 842 | GGGG | 960 |

ps11870-4 (See Notebook # 52818 pg 103)

840 Pail edge carb 4
(0071 bp)

Hydroxycarbonyl resistance B-lactamase

* MWG + Seqright are the companies
from which the sequencing
data was obtained.